

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A channel structuring method performed by a base station of a communication system configuring channels wherein transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, said method comprising:

providing, at the base station, time frames by segmenting a communication channel of said n sub-carriers at every predetermined interval;

selecting, at the base station, from the n sub-carriers, a predetermined number of sub-carriers for insertion of accompanying ~~common~~ control channel signals and common pilot signals; and

inserting, at the base station, ~~[[a]]~~ an accompanying ~~common~~ control channel signal and a common pilot signal into the time frames by time division multiplexing with respect to the selected sub-carriers while ensuring that at least one of the selected sub-carriers selected from the n sub-carriers used for the frequency division multiplexing has both ~~[[a]]~~ an accompanying ~~common~~ control channel signal and a common pilot signal inserted therein.

Claim 2 (Currently Amended): A channel structuring method as claimed in claim 1, wherein:

the accompanying ~~common~~ control channel signal and the common pilot signal are inserted periodically into every time frame of said selected sub-carriers.

Claim 3 (Currently Amended): A channel structuring method as claimed in claim 2, wherein, in regard to the accompanying ~~common~~ control channel signal and the common

pilot signal periodically inserted into every time frame of said selected sub-carriers, either the accompanying ~~common~~ control channel signal or the common pilot signal, or both thereof, is/are inserted at the same timing as either the accompanying ~~common~~ control channel signal or the common pilot signal, or both thereof of other sub-carriers.

Claim 4 (Currently Amended): A channel structuring method as claimed in claim 1, wherein

the accompanying ~~common~~ control channel signal is inserted continuously into the time frame of said selected sub-carriers, and the common pilot signal is inserted periodically into every time frame of said selected sub-carriers.

Claim 5 (Currently Amended): A channel structuring method as claimed in claim 1, wherein

the common pilot signal is inserted continuously into the time frame of said selected sub-carrier, and the accompanying ~~common~~ control channel signal is inserted periodically into every time frame of said selected sub-carriers.

Claim 6 (Canceled).

Claim 7 (Currently Amended): A channel structuring method as claimed in claim 1, wherein

the accompanying ~~common~~ control channel signal is inserted continuously into the time frame of said selected sub-carriers, and the common pilot signal is inserted continuously into the time frame of said selected sub-carriers.

Claim 8 (Currently Amended): A base station in which transmission signals are modulated by orthogonal frequency division multiplexing comprising n sub-carriers and multiplexed by time division multiplexing to configure downlink channels, comprising:

an accompanying ~~a common~~ channel signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of accompanying ~~common~~ control channel signals and inserting ~~[[a]]~~ an accompanying ~~common~~ control channel signal into the selected sub-carriers, and

a pilot signal insertion unit selecting, from the n sub-carriers, a predetermined number of sub-carriers for insertion of common pilot signal and inserting a common pilot signals into the selected sub-carriers, wherein time frames are provided by segmenting a communication channel of said n subcarriers at every predetermined interval, and ~~[[a]]~~ an accompanying ~~common~~ control channel signal and a common pilot signal are inserted into the time frames by time division multiplexing with respect to at least one of the selected sub-carriers while ensuring that at least one of the selected sub-carriers selected from the n sub-carriers used for the frequency division multiplexing has both ~~[[a]]~~ an accompanying ~~common~~ control channel signal and a common pilot signal inserted therein.

Claim 9 (Currently Amended): A base station as claimed in claim 8, wherein the accompanying ~~common~~ control channel signal and the common pilot signal are inserted periodically into every time frame of said selected sub-carriers.

Claim 10 (Previously Presented): A base station as claimed in claim 8, wherein said common pilot signal insertion unit selects a predetermined number of sub-carriers from said n sub-carriers, and inserts the common pilot signal periodically into every time frame of said selected sub-carriers.

Claim 11 (Currently Amended): A base station as claimed in claim 9, wherein
said common pilot signal insertion unit selects a predetermined number of sub-carriers from said n sub-carriers and inserting the common pilot periodically into every time frame of said selected sub-carriers, and

said accompanying ~~common~~ control channel signal insertion unit and said common pilot signal insertion unit insert the accompanying ~~common~~ control channel signal and the common pilot signal, respectively, into said selected sub-carriers such that a timing of the insertion of either the accompanying ~~common~~ control channel signal or the common pilot signal, or both, are same as the timing of either the accompanying ~~common~~ control channel signal or the common pilot signal, or both, of other sub-carriers.

Claim 12 (Currently Amended): A base station as claimed in claim 8, wherein
the accompanying ~~common~~ control channel signal is inserted continuously into every time frame of said selected sub-carriers, and
the common pilot signal is inserted periodically into every time frame of said selected sub-carriers.

Claim 13 (Currently Amended): A base station as claimed in claim 8, wherein
the common pilot signal is inserted continuously into every time frame of said selected sub-carriers, and
the accompanying ~~common~~ control channel signal is inserted periodically into every time frame of sale selected sub-carriers.

Claim 14 (Canceled).

Claim 15 (Currently Amended): A base station as claimed in claim 8, wherein
the accompanying ~~common~~ control channel signal is inserted continuously into every
time frame of said selected sub-carriers, and
the common pilot signal is inserted continuously into every time frame of said
selected sub-carriers.

Claim 16 (Canceled).

Claim 17 (Previously Presented): A base station as claimed in claim 9, wherein
said common pilot signal insertion unit selects a predetermined number of sub-
carriers from said n sub-carriers, and inserts the common pilot signal periodically into every
time frame of said selected sub-carriers.

Claim 18 (Canceled).

Claim 19 (New): A channel structuring method as claimed in claim 1, wherein the
accompanying control channel accompanies an information channel including information of
a communication between the base station and a sub-carrier of the communication system.

Claim 20 (New): A base station as claimed in claim 8, wherein the accompanying
control channel accompanies an information channel including information of a
communication between the base station and a sub-carrier of the communication system.